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	Application No.	Applicant(s)	
Nation of Alleger Liller	09/592,532	GREIFFENHAGEN ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Samuel Broda	2123	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication (IGHTS). This application is subject to	plication. If not included will be mailed in due co	d ourse. THIS
1. This communication is responsive to <u>Applicants' Reply ma</u>	niled on 12 August 2004.		
2. ☑ The allowed claim(s) is/are <u>1-15</u> .			
3. The drawings filed on are accepted by the Examine	er.		
 4. Acknowledgment is made of a claim for foreign priority una) a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	e been received. e been received in Application No		on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply MENT of this application.	complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☑ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the paper No./Mail Date	son's Patent Drawing Review (PTO 's Amendment / Comment or in the C	Office action of	pack) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	osit of BIOLOGICAL MATERIAL n FOR THE DEPOSIT OF BIOLOGICA	nust be submitted. No AL MATERIAL.	ote the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 2 September 2004 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other	(PTO-413), le nent/Comment	·
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		SAMUEL BRODA, ES PRIMARY EXAMINE	

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1. This communication is in response to Applicants' Reply Under 35 U.S.C. [sic] §1.111 mailed on 12 August 2004. Claims 1-2, 5, 12, and 14 were amended; claim 15 was added. Claims 1-15 are pending.

Drawings

2. New corrected (formal) drawings in compliance with 37 CFR 1.121(d) are required in this application because the application contains informal drawings. Applicants are advised to employ the services of a competent patent draftsperson outside the Office, as the U.S. Patent and Trademark Office no longer prepares new drawings. The corrected drawings are required in reply to the Office action to avoid abandonment of the application. The requirement for corrected drawings will not be held in abeyance.

Withdrawal of Rejections Under Section 112

3. Applicants' claim amendments and arguments are sufficient to remove the rejections under Section 112, first and second paragraphs.

Examiner's Amendment

4.1 An Examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicants, an amendment may be filed as provided by 37

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CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The amendment to claim 14 corrects an obvious grammatical error.

4.2 The application has been amended as follows:

In Claim 14, line 1, change the claim status from:

"Original"

<u>to</u>:

--Currently Amended--.

Reasons for Allowance

5. The following is an Examiner's statement of reasons for the indication of allowable subject matter:

The closest prior art of record shows:

- (1) a method of modeling each pixel as a mixture of Gaussians and using an on-line approximation to update the model (Stauffer et al, "Adaptive Background Mixture Models for Real-Time Tracking");
- (2) a sample refinement method of multiple mode probability density estimation using a set of sequential datasets taken from video frames (Cham et al, U.S. Patent 6,353,679);

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(3) a method of coupled hidden Markov models and synthetic agents used for developing prior models (Oliver et al, "A Bayesian Computer Vision System for Modeling Human Interactions"); and

- (4) a combination of a peripheral sensing agent that performs global monitoring tasks and a foveal sensing agent that performs focused monitoring tasks (Cui et al, "Indoor Monitoring Via the Collaboration Between a Peripheral Sensor and Foveal Sensor").
 - 5.1 Applicants' first set of claims consists of claims 1-13 and 15.

Independent claim 1 is directed to a method for visually locating and tracking an object through a space. This claim identifies the distinct steps of: "deriving statistical models for errors, including quantifying an indexing step performed by an indexing module, and tuning system parameters, wherein each statistical model is a candidate hypothesis for object location" and "locating the object according a candidate hypothesis evaluated to satisfy the likelihood model."

Because the closest prior art does not appear to teach or suggest the use of an indexing step in conjunction with a candidate hypothesis for object location, claims 1-13 and 15 are deemed allowable.

5.2 Applicants' second set of claims consists of claim 14.

Independent claim 14 is directed to a computer program product for locating and tracking an object through a space. This claim identifies the distinct steps of: "computer readable

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program code for causing a computer to derive statistical models for errors, including quantifying an indexing step, and tuning system parameters, wherein each statistical model is a candidate hypothesis for object location" and "computer readable program code for a causing a computer to locate the object according a candidate hypothesis evaluated to satisfy the likelihood model."

Because the closest prior art does not appear to teach or suggest the use of an indexing step in conjunction with a candidate hypothesis for object location, claim 14 is deemed allowable.

- 6. Any comments considered necessary by Applicants must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Samuel Broda, whose telephone number is (571) 272-3709. The Examiner can normally be reached on Mondays through Fridays from 8:00 AM 4:30 PM.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Kevin Teska can be reached at (571) 272-3716. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist, whose telephone number is (571) 272-2100.

SAMUEL BRODA, ESQ.